L10	L9 and (receive$ adj5 (configuration adj1 information$)).ab.	0	L10
L9	L1 and (remot$ adj3 configur$).ab.	32	L9
L8	L7 and service$.ab.	28	L8
L7	L1 and (remot$ with configur$).ab.	131	L7
L6	L2 and service$.ab.	4	L6
L5	L2 and (e-mail$ or email$).ab.	0	L5
L4	L2 and email.ab.	0	L4
L3	L2 and (automatic$)	18	L3
L2	L1 and ((receiv$ or transmit$) with (configur$ adj2 information$)).ab.	31	L2
L1	709/$.ccls.	18249	L1

END OF SEARCH HISTORY

Refine Search

Search Results -

Term	Documents
CONFIGURATION	1003695
CONFIGURATIONS	347686
RECEIVE$	0
RECEIVE	911687
RECEIVEA	5
RECEIVEABLE	149
RECEIVEABLES	1
RECEIVEABLY	33
RECEIVEABLY-COOKING	1
RECEIVEACCM	1
RECEIVEACK	1
(L9 AND (RECEIVE$ ADJ5 (CONFIGURATION ADJ1 INFORMATION$)).AB.).USPT.	0

There are more results than shown above. Click here to view the entire set.

Database:
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US Patents Full-Text Database
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EPO Abstracts Database
JPO Abstracts Database
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IBM Technical Disclosure Bulletins

Search: L10

Refine Search

Recall Text | Clear | Interrupt

Search History

DATE: Thursday, July 07, 2005 Printable Copy Create Case

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	DB=USPT; PLUR=YES; OP=ADJ		

Refine Search

Search Results -

Term	Documents
SERVICE$	0
SERVICE	276656
SERVICEA	3
SERVICEABILILITY	1
SERVICEABILITIES	2
SERVICEABILITY	4077
SERVICEABILITY-EVENT	8
SERVICEABILITY-FREQUENT	1
SERVICEABILITY-PARTICULARLY	1
SERVICEABILITY-REPAIRS	1
SERVICEABILITY/ACCURACY-PROCEDURE	1
(L2 AND SERVICE$.AB.).USPT.	4

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Derwent World Patents Index
IBM Technical Disclosure Bulletins

Search: L6

Refine Search

Recall Text Clear Interrupt

Search History

DATE: Thursday, July 07, 2005 Printable Copy Create Case

L6 | 3 - 6289377

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	DB=USPT; PLUR=YES; OP=ADJ		
L6	L2 and service$.ab.	4	L6

L5	L2 and (e-mail$ or email$).ab.	0	L5
L4	L2 and email.ab.	0	L4
L3	L2 and (automatic$)	18	L3
L2	L1 and ((receiv$ or transmit$) with (configur$ adj2 information$)).ab.	31	L2
L1	709/$.ccls.	18249	L1

END OF SEARCH HISTORY

date - NG7

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L6: Entry 1 of 4 File: USPT Oct 19, 2004

DOCUMENT-IDENTIFIER: US 6807266 B2
TITLE: Method and apparatus for provisioning a soft switch

Abstract Text (1):
A provisioning server (11) having various operating modes serves to provide a unified logical view of a soft switch (10) to a user via a display (14) and in response to receiving new service information from the user, provisioning corresponding configuration parameters to various of the logical communications support platforms (10A-F) that comprise the soft switch. Depending upon the mode of operation, the provisioning server can also receive current configuration parameter information from the logical platforms.

Current US Cross Reference Classification (2):
709/220

Previous Doc Next Doc Go to Doc#

US006807266B2

(12) **United States Patent**
Tripathi et al.

(10) **Patent No.: US 6,807,266 B2**
(45) **Date of Patent: Oct. 19, 2004**

(54) **METHOD AND APPARATUS FOR PROVISIONING A SOFT SWITCH**

(75) Inventors: **Anoop Tripathi**, Mount Prospect, IL (US); **Ashish Sardesai**, Schaumburg, IL (US); **Sudhakar Ramakrishna**, Lake Zurich, IL (US)

(73) Assignee: **3Com Corporation**, Santa Clara, CA (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 98 days.

(21) Appl. No.: **10/232,149**

(22) Filed: **Aug. 30, 2002**

(65) **Prior Publication Data**

US 2004/0042600 A1 Mar. 4, 2004

(51) **Int. Cl.**[7] **H04M 3/42**; G06F 15/177

(52) **U.S. Cl.** **379/201.12**; 379/201.03; 709/220

(58) **Field of Search** 379/201.01, 201.12, 379/207.02, 201.03, 219, 242; 709/220, 223, 227; 370/401

(56) **References Cited**

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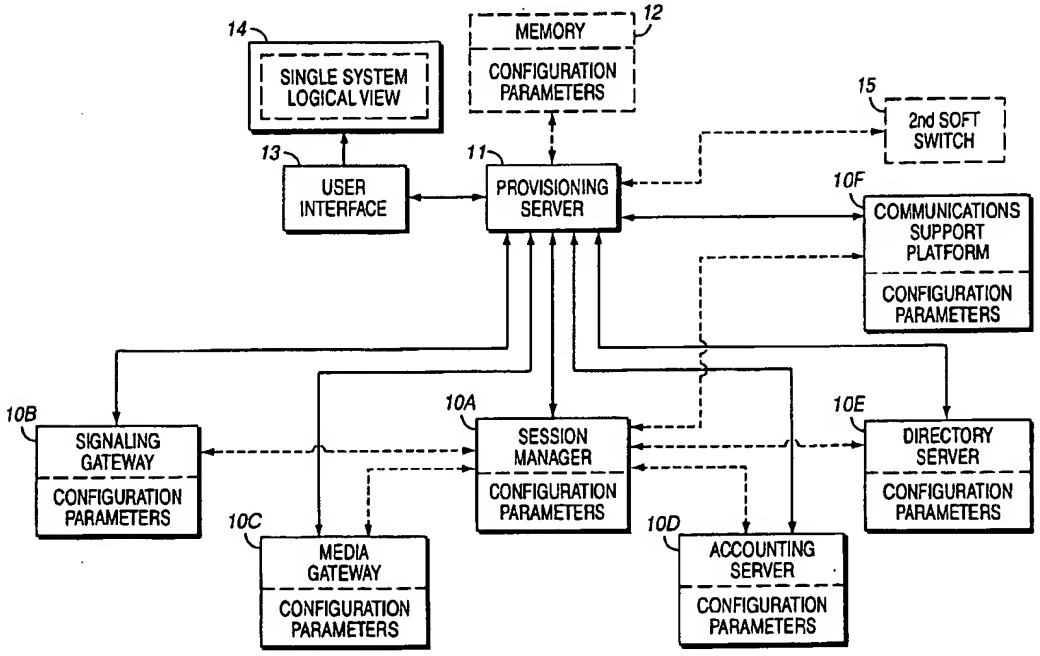
Primary Examiner—Benny Tieu
(74) *Attorney, Agent, or Firm*—Fitch, Even, Tabin & Flannery

(57) **ABSTRACT**

A provisioning server (11) having various operating modes serves to provide a unified logical view of a soft switch (10) to a user via a display (14) and in response to receiving new service information from the user, provisioning corresponding configuration parameters to various of the logical communications support platforms (10A–F) that comprise the soft switch. Depending upon the mode of operation, the provisioning server can also receive current configuration parameter information from the logical platforms.

20 Claims, 4 Drawing Sheets



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L6: Entry 2 of 4 File: USPT Oct 5, 2004

DOCUMENT-IDENTIFIER: US 6801920 B1
TITLE: System for remote management of applications of an industrial control system

Abstract Text (1):
A system for providing remote configuration management for an industrial control system (ICS) over a wide area network (such as the Internet), including keeping track of each application used by each device of the ICS, the system including: a configuration database, for keeping track of past and present configurations (which devices are or were in use by the ICS in each configuration); a remote sensing module, for determining information about the ICS devices and about applications used by the ICS devices; a configuration manager, for providing over the wide area network a restored copy of an application used by an ICS device; and utilities for enabling communication over a wide area network. The system optionally includes a billing manager that receives from the configuration manager information about each service performed by the configuration manager.

Current US Cross Reference Classification (3):
709/201

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US006801920B1

(12) **United States Patent**
Wischinski

(10) **Patent No.: US 6,801,920 B1**
(45) **Date of Patent: Oct. 5, 2004**

(54) **SYSTEM FOR REMOTE MANAGEMENT OF APPLICATIONS OF AN INDUSTRIAL CONTROL SYSTEM**

(75) Inventor: **Rainer H. Wischinski**, Sandown, NH (US)

(73) Assignee: **Schneider Automation Inc.**, North Andover, MA (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 385 days.

(21) Appl. No.: **09/609,355**

(22) Filed: **Jul. 5, 2000**

(51) **Int. Cl.**[7] **G06F 17/30**

(52) **U.S. Cl.** **707/203**; 707/7; 707/104.1; 709/201

(58) **Field of Search** 717/1, 11; 455/428; 703/21; 709/201; 710/7, 302, 104, 8; 707/202, 203, 204, 7, 104.1, 8

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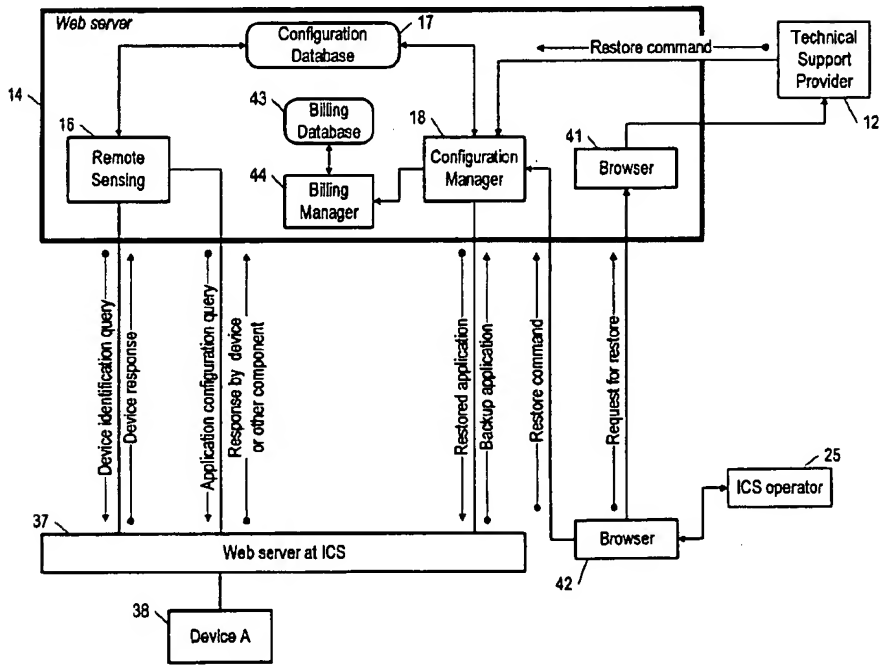
Primary Examiner—Charles Rones
Assistant Examiner—Hassan Mahmoudi
(74) *Attorney, Agent, or Firm*—David R. Stacey

(57) **ABSTRACT**

A system for providing remote configuration management for an industrial control system (ICS) over a wide area network (such as the Internet), including keeping track of each application used by each device of the ICS, the system including: a configuration database, for keeping track of past and present configurations (which devices are or were in use by the ICS in each configuration); a remote sensing module, for determining information about the ICS devices and about applications used by the ICS devices; a configuration manager, for providing over the wide area network a restored copy of an application used by an ICS device; and utilities for enabling communication over a wide area network. The system optionally includes a billing manager that receives from the configuration manager information about each service performed by the configuration manager.

6 Claims, 2 Drawing Sheets



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L6: Entry 3 of 4 File: USPT Sep 11, 2001

DOCUMENT-IDENTIFIER: US 6289377 B1
TITLE: Dynamic network configuration of a one-way adapter using a proxy agent that communicates with a resource server through a configured return path adapter

Abstract Text (1):
A one-way adapter such as a cable modem is initialized to allow a personal computer to receive data from a computer network such as the Internet via a broadcast channel, while transmitting data upstream to the computer network via a telephone line. First, a two-way adapter such as a phone modem is initialized by establishing a telephone link with a terminal server of an Internet Service Provider telephone network. The terminal server obtains an IP address from a phone network address server, and assigns the IP address to the phone modem stack. Next, the cable modem stack sends out a request for session initialization to a cable modem driver. The request is processed by a packet processing relay agent (PPRA), and the IP address of the phone modem is inserted into the packet. The IP packet destination address is set to that of a cable network address server. A cable network address server receives the packet via an upstream telephone line and responds with IP address and configuration information for the relay agent address. The phone modem receives the response and passes it to the cable modem stack via the PPRA. The cable modem is thus initialized with IP address and configuration information and is ready to receive Internet data via a one-way RF channel.

Current US Original Classification (1):
709/222

Current US Cross Reference Classification (1):
709/245

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US006289377B1

(12) **United States Patent**
Lalwaney et al.

(10) **Patent No.: US 6,289,377 B1**
(45) **Date of Patent: Sep. 11, 2001**

(54) **DYNAMIC NETWORK CONFIGURATION OF A ONE-WAY ADAPTER USING A PROXY AGENT THAT COMMUNICATES WITH A RESOURCE SERVER THROUGH A CONFIGURED RETURN PATH ADAPTER**

(75) Inventors: **Poornima Lalwaney**, San Diego; **Jonathan A. Fellows**, Del Mar, both of CA (US)

(73) Assignee: **General Instrument Corporation**, Horsham, PA (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: **09/179,696**

(22) Filed: **Oct. 27, 1998**

Related U.S. Application Data

(60) Provisional application No. 60/065,055, filed on Nov. 10, 1997.

(51) **Int. Cl.**[7] **G06F 13/00**
(52) **U.S. Cl.** **709/222**; 709/245
(58) **Field of Search** 709/203, 222, 709/245

(56) **References Cited**

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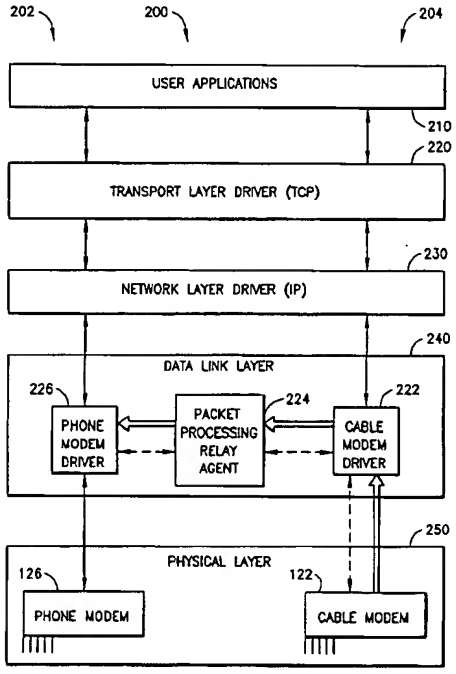
Primary Examiner—Kenneth R. Coulter
(74) *Attorney, Agent, or Firm*—Barry R. Lipsitz; Douglas M. McAllister

(57) **ABSTRACT**

A one-way adapter such as a cable modem is initialized to allow a personal computer to receive data from a computer network such as the Internet via a broadcast channel, while transmitting data upstream to the computer network via a telephone line. First, a two-way adapter such as a phone modem is initialized by establishing a telephone link with a terminal server of an Internet Service Provider telephone network. The terminal server obtains an IP address from a phone network address server, and assigns the IP address to the phone modem stack. Next, the cable modem stack sends out a request for session initialization to a cable modem driver. The request is processed by a packet processing relay agent (PPRA), and the IP address of the phone modem is inserted into the packet. The IP packet destination address is set to that of a cable network address server. A cable network address server receives the packet via an upstream telephone line and responds with IP address and configuration information for the relay agent address. The phone modem receives the response and passes it to the cable modem stack via the PPRA. The cable modem is thus initialized with IP address and configuration information and is ready to receive Internet data via a one-way RF channel.

22 Claims, 9 Drawing Sheets



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L6: Entry 4 of 4 File: USPT May 8, 2001

DOCUMENT-IDENTIFIER: US 6230195 B1
TITLE: Communication system, user apparatus, center apparatus, and terminal interface unit for use in communication system

Abstract Text (1):
A user apparatus periodically detects the mount state of any terminal interface card, and transmits, to a center apparatus, configuration information indicative of the configuration of the user apparatus and including the detection result, when responding to a request for delay time measurement. The center apparatus recognizes and manages the configuration of the user apparatus on the basis of the configuration information. When newly mounting or removing of a terminal interface card has been recognized, the center apparatus performs newly setting releasing of a destination identifier corresponding to the mounted or removed terminal interface card, and notifies the user apparatus of the newly set destination identifier. The user apparatus, in turn, manages identification information sent from the center apparatus, in relation to the terminal interface unit corresponding to the information. As a result, exchange, addition or cancel of communication services which the user uses can be performed easily.

Current US Original Classification (1):
709/220

Current US Cross Reference Classification (1):
709/221

Current US Cross Reference Classification (2):
709/226

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US006230195B1

(12) **United States Patent**
Sugawara et al.

(10) **Patent No.: US 6,230,195 B1**
(45) **Date of Patent: May 8, 2001**

(54) **COMMUNICATION SYSTEM, USER APPARATUS, CENTER APPARATUS, AND TERMINAL INTERFACE UNIT FOR USE IN COMMUNICATION SYSTEM**

(75) Inventors: **Mitsuru Sugawara**, Sagamihara; **Masatoshi Nakao**, Tokyo; **Hiroyuki Ibe**, Yokohama, all of (JP)

(73) Assignee: **Kabushiki Kaisha Toshiba**, Kawasaki (JP)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

(21) Appl. No.: **09/226,007**

(22) Filed: **Jan. 6, 1999**

(30) **Foreign Application Priority Data**

Jan. 7, 1998 (JP) 10-001331

(51) **Int. Cl.**[7] **G06F 15/177**
(52) **U.S. Cl.** **709/220**; 709/221; 709/226
(58) **Field of Search** 709/220, 221, 709/222, 223, 226, 208, 231, 236, 252, 249, 250, 230, 246; 710/8; 712/100

(56) **References Cited**

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Primary Examiner—Zarni Maung
Assistant Examiner—Patrice Winder
(74) *Attorney, Agent, or Firm*—Finnegan, Henderson, Farabow, Garrett & Dunner, L.L.P.

(57) **ABSTRACT**

A user apparatus periodically detects the mount state of any terminal interface card, and transmits, to a center apparatus, configuration information indicative of the configuration of the user apparatus and including the detection result, when responding to a request for delay time measurement. The center apparatus recognizes and manages the configuration of the user apparatus on the basis of the configuration information. When newly mounting or removing of a terminal interface card has been recognized, the center apparatus performs newly setting releasing of a destination identifier corresponding to the mounted or removed terminal interface card, and notifies the user apparatus of the newly set destination identifier. The user apparatus, in turn, manages identification information sent from the center apparatus, in relation to the terminal interface unit corresponding to the information. As a result, exchange, addition or cancel of communication services which the user uses can be performed easily.

18 Claims, 13 Drawing Sheets